obviousness of claim 74. Accordingly, applicants request that the Examiner reconsider and withdraw this ground of rejection.

**Information Disclosure Statement**

In accordance with their duty of disclosure under 37 C.F.R. § 1.56, applicants direct the Examiner's attention to the following references which are listed on the attached Form PTO-1449 (**Exhibit B**) and attached hereto as **Exhibits 1-60**:

1) U.S. Patent No. 4,824,775, issued 4/25/89, Dattagupta (Exhibit 1);

2) U.S. Patent No. 5,118,605, issued 6/2/1992, Urdea (Exhibit 2);

3) U.S. Patent No. 5,302,509, issued 12/4/94, Cheeseman Exhibit 3);

4) U.S. Patent No. 5,654,419, issued 8/5/97, Mathies (Exhibit 4);

5) U.S. Patent No. 5,728,528, issued 3/17/1998, Mathies (Exhibit 5);

6) U.S. Patent No. 5,770,367, issued 6/23/1998, Southern (Exhibit 6);

7) U.S. Patent No. 5,804,386, issued 9/8/98, Ju (Exhibit 7);

8) U.S. Patent No. 5,814,454, issued 10/29/98, Ju (Exhibit 8);

9) U.S. Patent No. 5,834,203, issued 11/10/98, Katzir (Exhibit 9);

10) U.S. Patent No. 5,853,992, issued 12/29/1998, Glazer (Exhibit 10);

11) U.S. Patent No. 5,869,255, issued 2/9/1999, Mathies (Exhibit 11);

12) U.S. Patent No. 5,945,283, issued 8/31/1999, Kwok (Exhibit 12);

13) U.S. Patent No. 5,952,180, issued 9/14/1999, Ju (Exhibit 13);

14) U.S. Patent No. 6,028,190, issued 2/22/2000, Mathies (Exhibit 14);

15) U.S. Patent No. 6,316,230, issued 11/13/01, Egholm (Exhibit 15);

16) PCT International Publication No. WO 02/079519 A1, published October 10, 2002 (Exhibit 16);

17) PCT International Publication No. WO 02/22883 A1, published March 21, 2002 (Exhibit 17);

18) PCT International Publication No. WO 02/29003, published April 11, 2002 (Exhibit 18);

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20) Olejnik, J. et al (1999) Photocleavable peptide-DNA conjugates: synthesis and applications to DNA analysis using MALDI-MS. Nucleic Acids Res. 27(23):4626-4631; (Exhibit 20);

21) Axelrod V.D., et al. (1978) Specific termination of RNA polymerase synthesis as a method of RNA and DNA sequencing. *Nucleic Acids Res.* 5(10): 3549-3563 (Exhibit 21);

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23) Badman, E. R. et al. (2000) Cylindrical Ion Trap Array with Mass Selection by Variation in Trap Dimensions. *Anal. Chem.* 72:5079-5086 (Exhibit 23);

24) Benson, S. C., Mathies, R. A. and Glazer, A. N. (1993) Heterodimeric DNA-binding dyes designed for energy transfer: stability and applications of the DNA complexes. *Nucleic Acids Res.* 21: 5720-5726 (Exhibit 24);

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27) Canard B., et al. (1995) Catalytic editing properties of DNA polymerases. *Proc. Natl. Acad. Sci. USA* 92:10859-10863 (Exhibit 27);

28) Caruthers M.H. (1985) Gene synthesis machines: DNA chemistry and its uses. *Science* 230: 281-285 (Exhibit 28);

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31) Edwards, J. et al. (2001) DNA sequencing using biotinylated dideoxynucleotides and mass spectrometry. *Nucleic Acids Res.* 29(21):e104 (Exhibit 31);

32) Griffin, T.J. et al. (1999) Direct Genetic Analysis by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. *Proc. Nat. Acad. Sci. USA* 96:6301-6306 (Exhibit 32);

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34) Haff L.A., et al. (1997) Multiplex Genotyping of PCR Products with Mass Tag-Labeled Primers. *Nucleic Acids Res.*

25(18):3749-3750 (Exhibit 34);

35) Hyman E.D. (1988) A new method of sequencing DNA. *Analytical Biochemistry* 174: 423-436 (Exhibit 35);

36) Ireland R.E., and Varney M.D. (1986) Approach to the total synthesis of chlorothricolide - synthesis of (+/-)-19,20-dihydro-24-O-methylchlorothricolide, methyl-ester, ethyl carbonate. *J. Org. Chem.* 51: 635-648 (Exhibit 36);

37) Jiang-Baucom, P. et al. (1997) DNA Typing of Human Leukocyte Antigen Sequence Polymorphisms by Peptide Nucleic Acid Probes and MALDI-TOF Mass Spectrometry. *Anal. Chem.* 69:4894-4896 (Exhibit 37);

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41) Lee L.G., et al. (1992) DNA sequencing with dye-labeled terminators and T7 DNA polymerase: effect of dyes and dNTPs on incorporation of dye terminators and probability

analysis of termination fragments. *Nucleic Acids Res.* 20: 2471-2483 (Exhibit 41);

42) Lee, L.G. et al. (1997) New energy transfer dyes for DNA sequencing. *Nucleic Acids Res.* 25: 2816-2822 (Exhibit 42);

43) Li, J., (1999) Single Oligonucleotide Polymorphism Determination Using Primer Extension and Time-of-Flight Mass Spectrometry. *Electrophoresis*, 20:1258-1265 (Exhibit 43);

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53) Ross, P.L. et al. (1997) Discrimination of Single-Nucleotide Polymorphisms in Human DNA Using Peptide Nucleic Acid Probes Detected by MALDI-TOF Mass Spectrometry. *Anal. Chem.* 69:4197-4202 (Exhibit 53);

54) Saxon E. and Bertozzi C.R. (2000) Cell surface engineering by a modified Staudinger reaction. *Science* 287: 2007-2010 (Exhibit 54);

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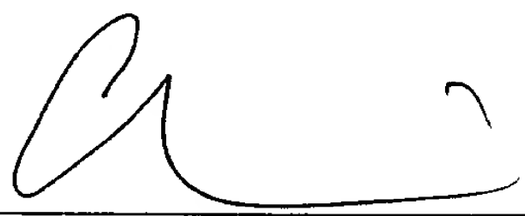
59) Woolley, A. T. et al. (1997) High-Speed DNA Genotyping Using Microfabricated Capillary Array Electrophoresis Chips. *Anal.Chem.* 69:2181-2186 (Exhibit 59); and

60) U.S. Serial No. 09/658,077, filed September 11, 2000 (Exhibit 60).

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone them at the number provided below.

No fee is deemed necessary in connection with the filing of this Amendment. If any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125.

Respectfully submitted,



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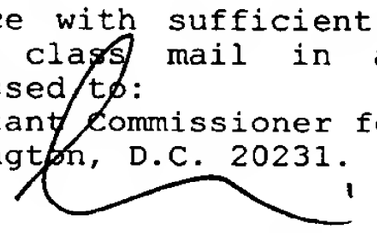

1/5/03

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